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ABSTRACT

Data are provided on degrees awarded by Canadian universities by level (bachelor's and first professional, master's, and doctoral) and discipline (education, fine and applied arts, humanities and related, social science and related, agricultural and biological sciences, engineering and applied sciences, health professions and occupations, and mathematics and physical sciences). The number of bachelor's and first professional degrees has more than tripled between 1961-62 and 1972-73, with a gradual increase in graduates from the sciences and professional fields (from 53.6 percent in 1968-69 to 60.6 percent in 1973-74). Other findings show the number of theology graduates declined slightly, education graduates have risen, as have law graduates. Women accounted for 41.6 percent of all graduates in 1973-74. Master's degrees have more than quadrupled in the 14-year period. The largest growth was in the social sciences, with education and the social sciences accounting for 59.7 percent of all master's graduates in 1973-74. During the period a rise, then decline, was noted in engineering, agriculture and biological sciences, and mathematics. The most spectacular growth was in the number of doctoral degrees where most Ph.D's were in the field of mathematics and physical sciences, even though the field declined. Increases were noted for the social sciences and engineering. Over half the document consists of tables detailing the trends. (PHR)

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DEGREES AWARDED BY CANADIAN UNIVERSITIES BY LEVEL AND DISCIPLINE, DURING THE SIXTIES AND EARLY SEVENTIES

PART I

U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

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PREFACE

The four-part series on Canadian universities deals with -

Part I Degrees by discipline and level

Part II Full-and part-time university enrolment by level and discipline,

Part III A comparison between Statistics Canada graduate enrolment and graduation data with information from the Canadian Association of Graduate Schools

Part IV The relationship between enrolment and degrees

These reports provide an overview of enrolment patterns and degrees in more than 60 disciplines during the sixties and early seventies. The data are grouped by level of study (bachelor's and first professional degrees, master's and doctorates).

The purpose is to provide consistent statistical series.*

* The clerical assistance of E. Kealey and A. Lemay in the preparation of the tables is gratefully acknowledged.

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INTRODUCTION

This report focuses on university graduation trends during the sixties and seventies. The three levels of study are treated separately: bachelor's and first professional, master's, and doctoral. The primary purpose is to provide this information by discipline, using data supplied by Statistics Canada and the Canadian Association of Graduate Schools. In the past, similar reports have concentrated on eight aggregated fields of study, rather than on the 60 to 70 distinct disciplines. For example, all engineering and applied science disciplines were combined in a single category. By contrast, this report breaks down the field into eight sub-groups.

From a labour market point of view, such a separation is desirable because each discipline has unique characteristics, and therefore, graduates of different disciplines within the same field are not necessarily interchangeable.

Another purpose of this report is to show by discipline and by level of degree, the number of graduates over an extended time, and the relative growth patterns. Such time series have a number of uses: 1) background data supplementing available information about the educational level of the population; 2) an indication of future trends, and 3) the relationship between enrolment and degrees expressed as a ratio.

The following discussion will highlight only the most significant aspects of graduation trends, as the main purpose of the document is to provide a consistent statistical series.

BACHELOR'S AND FIRST PROFESSIONAL DEGREES

It is well known that the annual number of bachelor's and first professional degrees more than tripled between 1961-62 and 1972-73 (Table 1). About half of these graduates were in arts and sciences, the balance were graduates of disciplines related to the professions. Since the seventies, the percentage from the sciences and the 24 professional fields has increased gradually, accounting for 60.6% in 1972-73 compared with 53.6% in 1968-69.

A further breakdown into 24 disciplines shows shifts in both absolute numbers and relative percentages. The number of theology graduates declined slightly from 566 in 1961-62 to 508 in 1972-73, but as a percentage of the total, dropped from 4.8% to 1.5%. (Table 2). In contrast, the proportion of education graduates (excluding physical and health education) rose from 29.1% to 40.4% in 1972-73, with a high of 44.5% in 1970-71. The number of law graduates more than tripled from 659 to 2,268, yet in relation to the total increased from 5.6% to only 6.7%. In the health field, the number of graduates for most health professions less than doubled: dentistry, from 229 to 414, and medicine, (M.D.'s) from 846 to 1,478: consequently, as a proportion of the total, most health professions declined.

For the first time in 1973-74, graduation data for 66 disciplines were broken down by sex (Table 3). Of nearly 75,000 graduates, 41.6% were female, with considerable variation among disciplines ranging from a low of 1.1% in engineering to a high of 98.6% in nursing.

Table 4 shows that two-thirds of all graduates in modern languages were female. Out of almost 5,000 graduates in this field, 3,000 received degrees in English, 1,400 in French, and the balance in a variety of other languages, e.g., 140 in German, 3 in Chinese, and the same number in Japanese.

Table 5 indicates the branches of engineering in which bachelor's degrees were granted in 1973-74, and the number and percent of females. Only 50 of more than 4,000 graduates were women. Three disciplines, mechanical, electrical and civil engineering accounted for nearly two-thirds of all engineering degrees.

Based on current enrolment trends, the annual number of bachelor's and first professional degrees will continue to rise to about 100,000, with some shifts in distribution and continued growth in the relative number of females.

MASTER'S DEGREES

Information about master's degrees comes from two sources: Statistics Canada and the Canadian Association of Graduate Schools. Data from the former (Tables 6 to 13) are based on a 52-discipline breakdown for the 14 years from 1960-61 to 1973-74. Information from the latter (Tables 14 to 19) covers a ten-year period (1966-1975), and has been separated into 71 disciplines. The two data sets are not necessarily comparable because:

- the Canadian Association of Graduate Schools records information from member institutions only, so particularly for earlier years, data may be incomplete;
- Statistics Canada data are based on the academic year (September 1 to August 31), whereas CAGS relies on the calendar year (January 1 to December 31);
- Statistics Canada information is organized into eight fields of study, CAGS data into five.

Overall, information from Statistics Canada is more comprehensive, but CAGS data are more up-to-date as they include 1975; the Statistics Canada time series ends with 1973-74. (1)

According to Statistics Canada, the number of master's degrees more than quadrupled during the fourteen-year period: from 2,350 in 1960-61 to 10,196 in 1973-74 (Table 6). Since 1970-71, the annual number has stabilized at about 10,000, although the peak year was 1972-73. The most spectacular growth took place in the social sciences, which increased from

(1) A subsidiary purpose of this report is reconciliation of CAGS and Statistics Canada data. However, this comparison will be developed in Part III of this series.

765 to 4,096 in absolute numbers, and from 32.6% to 40.2% as a proportion of the total. Together with education, the social sciences accounted for 59.7% of all master's graduates in 1973-74. The relative percentages of the physical and applied sciences, in each of which close to 1,000 degrees are conferred annually, declined slightly.

Tables 7 to 13 break down Statistics Canada data by discipline. In most, the general pattern of great overall growth since 1960-61, a high in the early seventies, and then a slight drop is evident.

However, education and fine and applied arts (Table 7) depart from this general trend. Since 1969-70, the number of master's degrees granted in both disciplines has risen steadily. The previous year, 1968-69, there was a marked decline in education, but a pronounced rise in fine and applied arts.

The humanities, as shown in Table 8, adhere more closely to the overall pattern. For example, the number of master's degrees in English increased from 74 in 1960-61 to a high of 481 in 1971-72, and then declined to 347 in 1973-74.(2) For some of the other humanities, such as history and philosophy, the number of master's graduates increased rapidly during the sixties but has since declined.

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(2) It should be remembered that particularly in the humanities and social sciences (including education), a sizable number of Canadians obtained their graduate training, at both the master's and doctoral levels, abroad. However, this number has declined substantially in recent years. At the same time, especially at the doctoral level, and in the sciences, a substantial number of foreign students have graduated from Canadian universities and left Canada. These factors must be considered in manpower discussions. (See "The Foreign Student Issues in 1976-77" by the author).

Commerce and business administration constitute the largest percentage of master's degrees granted. In the social sciences, the number awarded in this discipline increased from 352 in 1960-61 to 1,275 in 1973-74 (Table 9) In sociology, 11 masters degrees were granted in 1960-61, compared with 250 in 1972-73. Social work and psychology produced the second and third largest number of graduates at the master's level in 1960-61. By 1973-74, both had been over-taken by library science.

In most of the engineering disciplines there was rapid expansion during the sixties, but a decline after 1970-71, when a high of 1,175 master's degrees had been awarded (Table 10). A similar pattern existed in the agricultural and biological sciences, although totals were about half those in engineering (Table 11).

In the health professions, the number of master's degrees in medicine grew from 65 to 185, and in nursing, from 1 to 45 (Table 12).

The total number of degrees in mathematics and the physical sciences peaked at 957 in 1971-72, and then fell to 818 (Table 13). The pattern in each discipline is similar, with highs occurring in the late sixties or early seventies. The first master's degrees in computer science (9) were awarded in 1965-66; by 1973-74, this discipline ranked third in numbers granted (132).

Tables 14 to 19, constructed with information from CAGS, show similar patterns. However, overall and for most individual disciplines, there is an upturn in the number of master's degrees in 1975. For example, degrees in the humanities declined from a high of 1,770 in 1971 to a low of 1,493 in 1974, but increased slightly to 1,543 in 1975.

The social sciences (including education) depart from this pattern in that there has been sustained growth in numbers from about 4,000 to 6,500 in 1975 (Table 16). Most disciplines in the social sciences shared in this steady rise: the number of M.B.A.'s increased from less than 1,000 to about 1,500, and master's degrees in economics doubled from 145 in 1969 to 289 in 1975.

As already indicated by Statistics Canada, engineering degrees declined since 1970, but according to Table 17, this decline levelled off in 1975.

The CAGS data (Table 18) show 34 disciplines in the life sciences, a more detailed breakdown than that of Statistics Canada. For most, there are only marginal changes in the number of master's degrees granted since 1971, except agriculture, which declined from 42 to 22.

Degrees in the physical sciences dropped from a high of 986 in 1971 to a low of 791 in 1974, but increased to 823 in 1975. (Table 19).

In most of the sciences, the master's degree is not regarded as terminal. Therefore, it is more revealing to trace the numbers of doctoral degrees granted in these fields.

DOCTORAL DEGREES

The most spectacular growth in the number of degrees granted has been at the doctoral level, increasing from a total of 301 in 1960-61 to 1,900 in 1973-74 (Table 20). For example, the number of Ph.D.'s in engineering rose from 14 to 301; in the social sciences, from 41 to 325, and in education from 7 to 128. The proportion of social science Ph.D.'s, including education, grew from 15.7% to 23.8%. In contrast, the percentage in mathematics and the physical sciences, which increased from 33.0% in 1960-61 to a high of 40.1% in 1964-65, declined to 24.9% in 1973-74. Nevertheless, more Ph.D.'s were earned in this field than in any other.

By discipline, the number of Ph.D.'s in fine and applied arts varied from zero for a number of years to a high of 6 in 1970-71 and 1971-72, and declined to 4 in 1973-74 (Table 21). The pattern was similar in classics and Latin where for some years no Ph.D.'s were granted, and in others fewer than 5. The high of 14 occurred in 1971-72, but this number was halved in the next two years (Table 22). Doctorates in English rose from 16 to 66 during the fourteen-year period; the same trend was evident in history and philosophy, which increased from 6 to 47, and from 10 to 50, respectively. Degrees in other Modern Languages increased from 4 to 42.

In the social sciences, the number of Ph.D.'s increased: for example, business from zero or 1 for a number of years to 10 in 1973-74; geography, from 2 to 31. (Table 23)

As at the master's level, in most of the engineering disciplines, expansion was rapid during the sixties, but since 1971-72, the annual number of Ph.D.'s stabilized at about 300. There was some variation by discipline: a decline in chemical and civil engineering and a rise in electrical and "other" engineering (Table 24). Growth in the agricultural and biological sciences was not as spectacular. The number of Ph.D.'s increased from 57 to a high of 276 in 1970-71, and then declined slightly to 247 in 1973-74 (Table 25). Ph.D.'s in agriculture fell from 60 in 1969-70 to 49 in 1973-74. Biology doctorates rose from 8 in 1960-61 to a high of 93 in 1971-72 and have since declined to 64; in contrast, the number of degrees in both zoology and botany increased.

Of the health professions, medicine has been the predominant discipline in which Ph.D.'s have been granted: 23 of 24 in 1960-61; 143 of 153 in 1973-74 (Table 26). The other health professions produced very few Ph.D.'s.

Among the disciplines included in mathematics and the physical sciences (Table 27), chemistry has generated the most Ph.D.'s: 47 in 1960-61; a high of 241 in 1970-71, and 200 in 1973-74. In mathematics, including computer science, the number of Ph.D.'s increased from 8 in 1960-61 to 104 in 1973-74.

CAGS data show slightly different numbers in doctoral degrees for the corresponding years. According to CAGS, the 1974 total was 1,796, and in 1975, 1,825; and 384 and 513 in the social sciences respectively (Table 28).

The number of Ph.D.'s awarded in the social sciences increased during those two years from 384 to 513, and in the humanities from 291 to 312 (Table 28). Those two fields accounted for 25.7% of all Ph.D.'s in 1966, and 45.2% in 1975.

Conversely, the life sciences, physical sciences, and engineering declined. In absolute numbers, the Ph.D.'s in engineering fell from a high of 309 in 1973 to a low of 224 in 1975, and in the physical sciences, from 540 to 405.

In the humanities, the number of Ph.D.'s awarded in English, French and history continued to increase between 1973 and 1975, whereas those in other disciplines stabilized; linguistics and fine and applied arts showed rapid growth, although they started from a very low level.

In most of the social sciences, the number of Ph.D.'s continued to rise over the last two years (Table 30). In business, they almost doubled: from 10 to 19; the number in education also increased rapidly from 90 to 159; political science, from 25 to 42, and sociology, from 30 to 39.

In engineering, there was a decline from 309 Ph.D.'s in 1973 to 224 in 1975 (Table 31). This decrease was shared among the disciplines, but was particularly marked for electrical engineering, which decreased from 80 to 55, and mechanical engineering, from 49 to 35.

Table 32 shows that there has been an overall decline of Ph.D.'s in the life sciences during the last two years, with variations among disciplines. In the physical sciences, chemistry declined considerably, from a high of 257 in 1971 to 161 in 1975. In contrast, the number of Ph.D.'s awarded in computer science increased from 1 in 1970 to 17 in 1971, and 27 in 1975. The annual number awarded in geology has been around 30, except in 1973 when 51 were granted. In mathematics, more than 80 Ph.D.'s were granted each year during the early seventies, but by 1975, the annual total had dropped to 72. Physics peaked in 1973 with 157 Ph.D.'s but declined to 103 in 1975.[3]

(3) A cautionary note: although the numbers in these tables appear precise, they should be considered more as indicators of magnitude. There are a number of potential sources of errors: changes in definitions of disciplines by universities and possible under-reporting.

Table 1

Bachelor's and First Professional Degrees, by Field of Study, 1961-62 to 1972-73

Field of Study	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73
Arts	9,150	10,506	12,537	14,381	16,866	20,581	23,137	25,397	26,329	27,585	29,706	27.832
.....	40.1	42.1	43.6	43.5	44.6	47.6	47.4	46.4	43.6	41.1	40.9	39.4
Science	1,927	2,225	2,707	3,132	3,595	4193	5,127	6,320	6,739	7,725	8,788	8,862
.....	8.4	8.9	9.4	9.5	9.5	9.7	10.5	11.6	11.1	11.5	12.1	12.5
24 Other Fields	11,759	12,208	13,491	15,542	17,397	18,453	20,523	22,978	27,385	31,790	34,070	34,002
.....	51.5	49.0	46.9	47.0	45.9	42.7	42.1	42.0	45.3	47.4	47.0	48.1
Total	22,836	24,939	28,735	33,055	37,858	43,227	48,787	54,695	60,453	67,100	72,564	70,696
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 2

Bachelor's and First Professional Degrees, by Field of Specialization, 1961-62 to 1972-73

Field Of Specialization	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73
Agriculture	351	357	392	443	435	508	538	537	531	573	617	608
.....	3.0	2.9	2.9	2.8	2.5	2.8	2.6	2.3	2.0	1.8	1.8	1.8
Architecture	102	79	101	118	139	132	204	199	368	287	249	243
.....	0.9	0.6	0.7	0.8	0.8	0.7	1.0	0.9	1.3	0.9	0.7	0.7
Commerce & Business Administration	1,143	1,238	1,469	1,678	1,831	1,870	2,279	2,386	2,949	3,345	3,656	3,965
.....	9.7	10.2	10.9	10.8	10.5	10.1	11.1	10.4	10.8	10.5	10.7	11.7
Education	3,425	3,904	4,269	5,392	6,568	7,036	7,859	9,307	11,244	14,131	14,665	13,744
.....	29.1	32.0	31.6	34.7	37.8	38.1	38.3	40.5	41.1	44.5	43.1	40.4
Engineering & Applied Science .	2,437	2,246	2,423	2,259	2,327	2,420	2,681	2,966	3,543	3,898	4,068	4,122
.....	20.7	18.4	18.0	14.5	13.4	13.1	13.1	12.9	12.9	12.3	11.9	12.1
Environmental Studies	-	-	-	-	-	-	-	48	87	128	350	220
.....								0.2	0.3	0.4	1.0	0.6
Fine and Applied Arts	14	31	40	49	44	85	88	135	160	249	463	595
.....	0.1	0.3	0.3	0.3	0.3	0.5	0.4	0.6	0.6	0.8	1.4	1.7
Forestry	110	72	105	114	116	112	113	141	185	225	222	204
.....	0.9	0.6	0.8	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.6
Household Science	303	336	338	342	420	491	527	595	617	561	600	529
.....	2.6	2.8	2.5	2.2	2.4	2.7	2.6	2.6	2.2	1.8	1.8	1.6
Interior Design .	10	13	24	21	18	14	16	28	35	35	35	35
.....	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Journalism	22	21	26	25	47	51	45	61	37	72	54	130
.....	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.1	0.2	0.2	0.4
Law	656	623	685	740	938	1,093	1,167	1,322	1,502	1,949	2,152	2,268
.....	5.6	5.1	5.1	4.8	5.4	5.9	5.7	5.8	5.5	6.2	6.3	6.7
Library Science .	232	232	277	311	337	309	384	486	459	306	152	96
.....	2.0	1.9	2.1	2.0	1.9	1.7	1.9	2.1	1.7	1.0	0.4	0.3
Dentistry	229	257	258	286	299	310	334	364	341	369	398	414
.....	1.9	2.1	1.9	1.8	1.7	1.7	1.6	1.6	1.2	1.2	1.2	1.2

Table 2 (con't)

Bachelor's and First Professional Degrees, by Field of Specialization, 1961-62 to 1972-73

Field of Specialization	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73
Medicine (M.D.) ..	846	826	774	1,033	890	987	1,001	1,019	1,073	1,133	1,550	1,478
.....	7.2	6.8	5.7	6.6	5.1	5.3	4.9	4.4	3.9	3.6	4.5	4.3
Nursing	366	384	407	563	662	809	954	1,059	1,245	1,258	1,156	1,215
.....	3.1	3.1	3.0	3.6	3.8	4.4	4.5	4.6	4.5	4.0	3.4	3.6
Optometry	28	33	32	52	35	41	35	34	57	30	48	39
.....	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2
Pharmacy	275	277	357	375	364	331	406	346	404	441	461	549
.....	2.3	2.3	2.6	2.4	2.9	1.8	2.0	1.5	1.5	1.4	1.4	1.6
Rehabilitation Medicine	-	2	11	9	26	38	57	94	228	205	241	272
.....	-	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.8	0.6	0.7	0.8
Music	88	79	95	129	144	171	208	287	334	337	449	448
.....	0.7	0.6	0.7	0.8	0.8	0.9	1.0	1.2	1.2	1.1	1.3	1.3
Physical & Health Education	315	357	496	525	616	731	805	759	837	1,078	1,354	1,541
.....	2.7	2.9	3.7	3.4	3.5	4.0	3.9	3.3	3.1	3.4	4.0	4.5
Theology	566	509	611	767	805	805	727	693	869	743	600	508
.....	4.8	4.2	4.5	4.9	4.6	4.4	3.5	3.0	3.2	2.3	1.8	1.5
Veterinary Medicine	72	70	83	81	90	103	94	112	117	132	138	176
.....	0.6	0.6	0.6	0.5	0.5	0.6	0.4	0.5	0.4	0.4	0.4	0.5
Other	169	262	219	230	246	6	1	-	163	305	392	563
.....	1.4	2.1	1.6	1.5	1.4	0.03	0.0		0.6	1.0	1.2	1.7
Total 11,759	12,208	13,491	15,542	17,397	18,453	20,523	22,978	27,385	31,790	34,070	34,002	

Table 3

Bachelor's and First Professional Degrees,
by Discipline and Sex, 1973-74

Discipline	Total	Female	Percent Female
Education	15,332	8,385	54.7
Fine and Applied Arts	1,922	1,190	61.9
Humanities and Related			
Classics, Classical Languages	89	58	65.2
Creative Writing	2	-	-
History	2,713	948	34.9
Library & Records Sciences	76	65	85.5
Mass Media	442	180	40.7
Modern Languages, Literature	4,883	3,247	66.5
Philosophy	544	153	28.1
Religious Studies	604	191	31.6
Translation & Interpretation	251	174	69.3
Other	78	32	41.0
Sub Total	9,682	5,048	52.1
Social Sciences & Related			
Anthropology	547	301	55.0
Archaeology	17	8	47.1
Area Studies	81	54	66.7
Commerce, Business Administration	5,087	817	16.1
Other Institutional Administration	57	16	28.1
Economics	1,735	252	14.5
Geography	1,971	492	25.0
Law	2,474	415	16.8
Linguistics	154	94	61.0
Man/Environment Studies	235	50	21.3
Political Science	1,695	388	22.9
Psychology	3,995	2,284	57.2
Social Work	670	476	71.0
Sociology	2,350	1,361	57.9
Other	105	65	61.9
Sub Total	21,173	7,073	33.4
Agricultural & Biological Sciences			
Agriculture	515	84	16.3
Biochemistry	201	61	30.3
Biology	2,056	709	34.5
Biophysics	7	1	14.3
Botany	66	17	25.8
Household Science	969	950	98.0

Table 3 (con't)

Bachelor's and First Professional Degrees,
by Discipline and Sex, 1973-74

Discipline	Total	Female	Percent Female
Veterinary Medicine	182	25	13.7
Zoology	367	98	26.7
Sub Total	4,363	1,945	44.6
Engineering and Applied Sciences			
Architecture	319	32	10.0
Engineering	3,999	45	1.1
Engineering Science	145	5	3.4
Forestry	209	11	5.3
Landscape Architecture	31	4	12.9
Other	129	49	38.0
Sub Total	4,832	146	3.0
Health Professions & Occupations			
Dentistry	465	35	7.5
Medicine	1,890	403	21.3
Basic Sciences	188	31	16.5
Paraclinical Sciences	51	24	47.0
Nursing	1,164	1,148	98.6
Optometry	89	9	10.1
Pharmacy	591	306	51.8
Rehabilitation Medicine	462	420	90.9
Art, Applied to Medicine	6	5	83.3
Medical Technology	30	29	96.7
Other	55	35	63.6
Sub Total	4,991	2,445	49.0
Mathematics & Physical Sciences	240	47	19.6
Actuarial Science	68	4	5.9
Applied Mathematics	806	171	21.2
Mathematical Statistics	67	26	38.8
Mathematics	1,542	516	33.5
Chemistry	672	130	19.3
Geology & Related	525	51	9.7
Meteorology	5	1	20.0
Physics	431	35	8.1
Sub Total	4,356	981	22.5
Other Specialization	8,341	3,971	47.6
Total	74,992	31,184	41.6

Table 4

Bachelor's Degrees in Modern Languages, by Discipline and Sex, 1973-74

Discipline	Total	Female	Percent Female
Modern Languages & Literature	48	34	70.8
English	2,990	1,894	63.3
French	1,396	1,009	72.3
German	140	94	67.1
Italian	42	25	59.5
Spanish	148	114	77.0
Russian	52	42	80.8
Ukrainian	5	3	60.0
Other Slavic, East European	7	5	71.4
Chinese	3	1	33.3
Japanese	3	3	100.0
Other Asian Languages & Literature	2	-	-
Other Modern Languages	47	23	48.9
Total	4,883	3,247	66.49

Table 5

Bachelor's Degrees in Engineering, by Discipline and Sex, 1973-74

Discipline	Total	Female	Percent Female
Agricultural Engineering	76	-	-
Chemical Engineering	461	14	3.0
Civil Engineering	841	9	1.1
Design, Systems Engineering	27	-	-
Electrical Engineering	908	7	0.8
Forestry Engineering	45	-	-
Geological Engineering	142	4	2.8
Industrial Engineering	163	1	0.6
Mechanical Engineering	925	6	0.6
Metallurgical Engineering Material Science	106	2	1.9
Mining Engineering	112	-	-
Surveying Engineering Geodesy	63	-	-
Engineering Physics	75	3	4.0
Engineering Chemistry	7	2	28.6
Other Engineering Science	63	-	-
Other Engineering	130	2	1.5
Total	4,144	50	1.2

Table 6
Master's Degrees, by Field of Study, 1960-61 to 1973-74

Field of Study	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Fine and Applied Arts	14	15	16	40	20	22	45	60	111	69	86	97	95	120
	0.6	0.5	0.5	1.2	0.5	0.4	0.7	0.8	1.5	0.8	0.9	0.9	0.9	1.2
Humanities	419	459	527	649	759	1,093	1,247	1,582	1,269	1,589	1,700	1,860	1,793	1,529
	17.8	16.8	16.9	18.7	18.6	21.0	20.0	21.8	17.4	18.8	17.6	18.1	16.8	15.0
Education	423	577	651	590	640	1,033	1,258	1,263	954	1,245	1,421	1,721	1,952	1,992
	18.0	21.1	20.8	17.0	15.7	19.8	20.1	17.4	13.1	14.7	14.7	16.8	18.3	19.5
Social Sciences	765	818	977	1,077	1,348	1,491	1,970	2,337	2,692	2,906	3,478	3,761	4,061	4,096
	32.6	29.9	31.3	31.0	33.0	28.6	31.5	32.2	36.9	34.3	36.1	36.7	38.0	40.2
Engineering and Applied Sciences	217	286	307	383	453	531	555	738	947	986	1,175	1,026	1,066	928
	9.2	10.5	9.8	11.0	11.1	10.2	8.9	10.2	13.0	11.7	12.2	10.0	10.0	9.1
Mathematics and Physical Sciences	282	313	351	390	412	545	583	663	696	885	949	957	925	818
	12.0	11.5	11.2	11.2	10.1	10.5	9.3	9.1	9.5	10.5	9.8	9.3	8.7	8.0
Agriculture and Biological Sciences	147	166	187	221	299	334	362	394	385	491	552	544	473	451
	6.3	6.1	6.0	6.4	7.3	6.4	5.8	5.4	5.3	5.8	5.7	5.3	4.4	4.4
Health Professions	83	99	108	125	154	165	227	231	246	290	277	292	320	262
	3.5	3.6	3.5	3.6	3.8	3.2	3.6	3.2	3.4	3.4	2.9	2.8	3.0	2.6
Total	2,350	2,733	3,124	3,475	4,085	5,214	6,247	7,268	7,300	8,461	9,638	10,258	10,685	10,196
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 7

Master's Degrees in Education and Fine Arts, 1960-61 to 1973-74

Discipline	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Education							
Physical Education	2	3	7	8	10	24	27
Other Education	421	574	644	582	630	1,009	1,231
Total	423	577	651	590	640	1,033	1,258
Fine & Applied Arts	14	15	16	40	20	22	45

Discipline	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Education							
Physical Education	23	47	46	52	65	77	69
Other Education	1,240	907	1,199	1,369	1,656	1,875	1,923
Total	1,263	954	1,245	1,421	1,721	1,952	1,992
Fine & Applied Arts	60	111	69	86	97	95	120

Table 8

Master's Degrees in Humanities, by Discipline, 1960-61 to 1973-74

Discipline	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Humanities							
Classics & Latin	24	20	13	40	58	87	57
English	74	65	84	125	126	165	251
French	64	71	79	60	73	118	181
Other Modern Languages ..	13	32	29	49	90	46	55
History	66	65	79	120	143	229	248
Linguistics	8	12	4	5	12	3	10
Philosophy	85	107	108	112	115	138	115
Theology & Religion	45	41	54	70	102	221	218
Other Humanities	40	46	77	68	40	86	112
Total	419	459	527	649	759	1,093	1,247

Table 8 (con't)

Master's Degrees in Humanities, by Discipline, 1960-61 to 1973-74

Discipline	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Humanities							
Clasics & Latin	48	43	46	56	36	35	18
English	277	340	430	436	481	399	347
French	224	151	210	191	238	181	161
Other Modern Languages ..	86	118	162	148	142	138	187
History	333	198	282	278	321	307	262
Linguistics	22	19	38	53	-	54	36
Philosophy	124	136	156	137	146	164	106
Theology & Religion	282	251	245	385	465	497	355
Other Humanities	186	13	20	16	31	18	57
Total	1,582	1,269	1,589	1,700	1,860	1,793	1,529

Table 9

Master's Degrees in Social Sciences, by Discipline, 1960-61 to 1973-74

Discipline	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Social Sciences							
Archaeology	4	4	3	4	3	4	3
Anthropology	8	2	13	15	25	24	26
Commerce & Business	352	363	436	380	523	648	769
Economics	41	28	39	45	59	80	98
Geography	21	29	28	47	47	40	79
Law	22	10	30	27	46	19	28
Library Science	2	2	3	3	6	20	56
Political Sc. & Public Administration	22	24	24	24	59	61	80
Psychology	98	118	111	128	167	196	248
Social Work	151	175	170	256	282	309	347
Sociology	11	21	19	22	32	50	73
Other (Social Sciences) .	33	42	101	126	99	40	163
Total	765	818	977	1,077	1,348	1,491	1,970

Table 9 (con't)
Master's Degrees in Social Sciences, by Discipline, 1960-61 to 1973-74

Discipline	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Social Sciences							
Archaeology	3	1	2	3	5	7	10
Anthropology	39	39	54	56	81	74	71
Commerce & Business	839	979	971	1,092	1,135	1,234	1,275
Economics	136	156	269	324	318	401	331
Geography	88	103	113	158	159	165	148
Law	51	39	39	33	28	35	48
Library Science	59	117	138	351	402	532	503
Political Sc. & Public Administration	85	96	159	213	238	256	274
Psychology	300	361	350	387	375	417	415
Social Work	389	488	508	509	522	429	451
Sociology	167	170	177	192	216	250	216
Other (Social Sciences) .	181	143	126	160	282	261	354
Total	2,337	2,692	2,906	3,478	3,761	4,061	4,096

Tab

Master's Degrees in Engineering & Applied S

Discipline	1960-61	1961-62	196
Engineering & Applied Sciences			
Forestry	30	24	
Aerospace Engineering ..	-	-	
Chemical Engineering ...	26	25	
Civil Engineering	45	55	
Electrical Engineering .	51	60	
Mechanical Engineering .	30	46	
Other Engineering	33	70	
Architecture	2	6	
Total	217	286	

ble 10

Sciences, by Discipline, 1960-61 to 1973-74

962-63	1963-64	1964-65	1965-66	1966-67
14	17	16	18	14
-	-	19	11	13
33	45	52	69	67
74	106	149	122	132
73	79	100	139	135
45	50	54	66	83
68	76	54	97	96
-	10	9	9	15
307	383	453	531	555

Table 10 (con

Master's Degrees in Engineering & Applied Sciences, by

Discipline	1967-68	1968-69	1969-70	19
Engineering & Applied Sciences				
Forestry	24	37	27	
Aerospace Engineering ..	17	16	24	
Chemical Engineering ...	95	109	131	
Civil Engineering	167	231	245	
Electrical Engineering .	172	213	231	
Mechanical Engineering .	97	144	144	
Other Engineering	144	178	162	
Architecture	22	19	22	
Total	738	947	986	1,1

't)

Discipline, 1960-61 to 1973-74

70-71	1971-72	1972-73	1973-74
40	39	38	20
22	24	25	16
162	131	100	94
289	252	215	197
228	229	229	214
175	163	150	147
237	163	254	207
22	25	55	33
175	1,026	1,066	928

Table 11

Master's Degrees in Agriculture & Biological Sciences, by Discipline, 1960-61 to 1973-74

Discipline	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Agriculture & Biological Sciences							
Agriculture	39	59	79	98	75	106	102
Household Sciences	9	7	3	4	7	13	3
Veterinary Medicine	8	2	9	10	6	8	5
Biology	21	28	19	38	41	31	73
Zoology	24	31	35	33	47	61	83
Biochemistry	16	10	17	11	32	35	25
Botany	10	6	17	13	16	22	24
Other Biol. & Agri. Sc.	20	23	8	14	75	58	47
Total	147	166	187	221	299	334	362

Table 11 (con't)

Master's Degrees in Agriculture & Biological Sciences, by Discipline, 1960-61 to 1973-74

Discipline	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Agriculture & Biological Sciences							
Agriculture	115	103	162	165	149	151	103
Household Sciences	5	14	23	35	18	33	26
Veterinary Medicine	13	5	18	26	27	14	15
Biology	87	87	134	187	192	175	170
Zoology	87	75	95	72	102	64	85
Biochemistry	39	29	20	32	32	11	16
Botany	14	20	39	35	24	25	26
Other Biol. & Agri. Sc.	34	52	-	-	-	-	10
Total	394	385	491	552	544	473	451

Table 12

Master's Degrees in Health Professions, by Discipline, 1960-61 to 1973-74

Discipline	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Heatlh Professions							
Dentistry	4	7	5	5	9	13	10
Medicine	65	75	70	96	100	110	153
Nursing	1	3	12	8	11	4	13
Pharmacy	8	6	10	5	18	20	20
Other Health Professions	5	8	11	11	16	18	31
Total	83	99	108	125	154	165	227

Discipline	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Health Professions							
Dentistry	10	8	10	12	14	9	10
Medicine	139	171	189	191	175	196	185
Nursing	19	17	28	24	41	49	45
Pharmacy	23	15	21	21	30	21	16
Other Health Professions	40	35	42	29	32	45	6
Total	231	246	290	277	292	320	262

Table 13

Master's Degrees in Mathematics & Physical Sciences, by Discipline, 1960-61 to 1973-74

Discipline	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Mathematics & Physical Sciences							
Astronomy	2	4	8	4	11	2	7
Chemistry	71	67	81	79	85	116	143
Computer Science	-	-	-	-	-	9	9
Geology	51	55	45	52	51	59	58
Mathematics	55	46	82	106	83	171	175
Physics (with Metorology)	99	119	109	125	149	165	178
Other Mathematics and Physical Sciences	4	22	26	24	33	23	13
Total	282	313	351	390	412	545	583

Table 13 (con't)

Master's Degrees in Mathematics & Physical Sciences, by Discipline, 1960-61 to 1973-74

Discipline	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Mathematics & Physical Sciences							
Astronomy	9	11	12	17	10	6	8
Chemistry	153	144	162	219	190	169	131
Computer Science	21	28	56	76	100	164	132
Geology	63	75	83	120	94	111	93
Mathematics	213	247	336	281	328	259	256
Physics (with meteorology)	180	191	223	230	214	197	184
Other Mathematics and Physical Sciences	24	-	13	6	21	19	14
Total	663	696	885	949	957	925	818

Table 14

Master's Degrees by Field of Study, 1966 to 1975

Field of Study	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Humanities	680	818	1,256	1,412	1,523	1,770	1,705	1,600	1,493	1,543
.....	18.8	19.5	22.1	20.6	18.3	19.1	17.4	15.8	15.2	14.4
Social Sciences ..	1,374	1,671	2,371	3,049	4,003	4,541	5,321	5,710	5,741	6,471
.....	38.1	39.7	41.7	44.5	48.2	49.0	54.3	56.5	58.5	60.2
Engineering & Applied Sciences	471	561	744	915	1,034	1,037	1,048	981	919	956
.....	13.1	13.3	13.1	13.3	12.4	11.2	10.7	9.7	9.4	8.9
Physical Sciences	484	557	642	773	851	986	809	901	791	823
.....	13.4	13.2	11.3	11.3	10.3	10.6	8.3	8.9	8.2	7.7
Life Sciences	598	599	678	709	896	932	915	917	865	951
.....	16.6	14.3	11.9	10.3	10.8	10.1	9.3	9.1	8.8	8.9
Total	3,607	4,206	5,691	6,858	8,307	9,266	9,798	10,109	9,809	10.744
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: Canadian Association of Graduate Schools.

Table 15

Master's Degrees in the Humanities, by Discipline 1966-1975

Discipline	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Fine and Applied Arts	9	21	56	83	103	97	99	111	124	127
Classics and Latin	27	40	39	49	33	54	33	30	22	18
English Language and Literature	190	247	322	390	376	478	432	383	369	378
French Language and Literature	69	78	158	172	188	213	197	199	178	168
History	167	158	223	247	273	307	294	309	277	262
Linguistics	1	4	16	14	41	50	58	65	40	75
Modern Languages and Literature	86	107	99	119	142	123	107	101	94	90
Philosophy	85	99	117	110	134	140	136	139	108	131
Theology and Religion	39	44	166	158	179	227	180	138	135	156
Other*	7	20	60	70	54	81	169	125	146	138
Total	680	818	1,256	1,412	1,523	1,770	1,705	1,600	1,493	1,543

* Includes Asian and Slavic Studies, Comparative Literature, and Medieval Studies.
Source: Canadian Association of Graduate Schools.

Table 16

Master's Degrees in the Social Sciences, by Discipline, 1966-1975

Discipline	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Anthropology .....)	18	25	49	59	45	66	59	74	64	76
Archaeology .....)			4	1	1	2	2	8	8	12
Business	267	290	580	711	965	1,020	1,103	1,067	1,201	1,490
Economics	81	79	127	145	196	197	254	269	273	289
Education	403	482	626	883	1,170	1,360	1,740	1,915	1,939	2,040
Geography	63	78	112	116	167	166	174	160	150	193
Law	12	31	25	21	20	18	74	73	84	109
Library Science	5	56	87	121	216	294	401	438	429	389
Physical Education	19	25	35	48	47	57	69	84	77	112
Political Science and Public Administration	111	129	146	167	247	257	270	381	291	373
Psychology	161	204	285	289	327	422	346	403	397	486
Social Welfare	155	167	138	233	262	335	370	378	368	378
Sociology	62	74	92	151	162	178	195	208	191	184
Other*	17	31	64	104	178	169	264	252	269	340
Total	1,374	1,671	2,371	3,049	4,003	4,541	5,321	5,710	5,741	6,471

* Includes Canadian Studies, Journalism and Communication, Urban and Regional Planning.

Source: Canadian Association of Graduate Schools.

Table 17

Master's Degrees in Engineering and Applied Sciences, by Discipline, 1966-1975

Discipline	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Architecture	14	21	25	21	21	23	40	40	32	44
Aerospace Science	18	15	38	36	28	28	24	19	19	13
Chemical Engineering	83	85	103	117	164	143	124	95	82	103
Civil Engineering	114	158	198	231	283	241	206	189	192	196
Electrical Engineering	141	142	168	252	229	230	203	240	199	171
Mechanical Engineering	74	92	123	132	180	153	155	130	152	110
Other*	27	48	89	126	129	219	296	268	243	319
Total	471	561	744	915	1,034	1,037	1,048	981	919	956

* Includes Engineering Design, Environmental Studies, Industrial and Mining Engineering, and Metal and Materials Science.
Source: Canadian Association of Graduate Schools.

Table 18

Master's Degrees in the Life Sciences, by Discipline, 1966-1975

Discipline	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Agriculture	50	42	39	46	42	42	30	32	19	22
Anatomy	12	10	10	18	14	14	21	15	12	12
Animal Science	42	38	38	43	47	52	37	34	33	20
Biochemistry	27	29	42	32	44	48	41	31	37	33
Biology	43	98	72	85	106	168	137	145	137	167
Biomedical Engineering	2	2	1	–	–	–	–	–	–	2
Biophysics	5	2	8	11	5	14	18	4	5	7
Botany	17	10	29	19	37	20	16	21	24	17
Cancer Research	1	–	3	1	2	–	–	–	–	–
Clinical Medical Sc.	–	–	–	–	1	2	4	3	3	4
Dentistry	7	16	7	7	10	15	16	18	16	11
Entomology	8	6	13	16	11	7	19	19	13	16
Epidemiology	–	–	–	–	–	–	–	5	6	7
Food Science and Nutrition	10	12	12	27	40	36	31	35	35	49
Forestry	17	16	21	33	42	38	34	35	28	40
Genetics	8	6	10	7	7	7	4	3	3	6
Hospital Administration	3	7	13	9	4	18	51	49	63	42
Marine Science	7	4	4	6	2	8	7	6	6	7
Medical Sciences	–	–	–	–	–	–	–	29	16	23
Medicine	65	51	16	11	21	27	29	8	10	11
Microbiology and Immunology	16	27	55	47	50	46	47	48	41	38
Neuroscience	–	–	–	–	–	–	–	2	2	7
Nursing	5	15	11	19	29	27	46	55	50	55
Pathology	10	7	17	15	26	12	6	10	12	6
Pharmacy/Pharmacology	46	25	31	28	57	46	54	73	62	76
Physiology	7	22	23	30	34	31	38	38	30	33
Plant Science	58	28	20	29	45	51	47	40	39	39
Psychiatry	–	–	2	1	–	–	1	–	1	1
Public Health Hygiene	30	27	12	22	26	23	21	12	13	13
Soil Science	15	15	24	28	32	25	16	37	25	22
Surgery	1	9	24	15	20	21	15	21	4	15
Veterinary Medicine	5	15	17	8	12	16	14	20	28	25
Zoology	79	58	89	76	96	84	77	57	70	63
Other (including Bacteriology)	2	2	15	20	34	34	38	12	22	62
Total	598	599	678	709	896	932	915	917	865	951

Source: Canadian Association of Graduate Schools.

Table 19

Master's Degrees in the Physical Sciences, by Discipline, 1966-1975

Discipline	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Astronomy	3	11	7	12	13	16	12	8	8	9
Chemistry	114	138	132	161	164	209	162	149	106	167
Computer Science	7	16	30	45	51	147	144	175	171	100
Geology	51	74	71	76	88	105	89	84	82	107
Mathematics	161	149	204	281	338	280	227	268	238	261
Physics (including Meteorology)	148	169	198	198	197	229	175	217	186	179
Total	484	557	642	773	851	986	809	901	791	823

Source: Canadian Association of Graduate Schools.

Table 20

Doctoral Degrees, by Fie

Field of Study	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1
Fine and Applied Arts	-	-	-	2 0.4	1 0.2	1 0.1	
Humanities	57 18.9	41 13.1	52 12.7	48 10.2	70 12.3	87 12.2	
Education	7 2.3	16 5.1	12 2.9	12 2.6	21 3.7	24 3.4	
Social Sciences	41 13.6	35 11.2	39 9.5	57 12.2	57 10.0	67 9.4	
Engineering and Applied Sciences	14 4.6	14 4.5	20 4.9	35 7.5	52 9.1	93 13.1	
Mathematics and Physical Sciences	101 33.6	115 36.7	157 38.3	184 39.2	228 40.0	260 36.5	
Agriculture and Biological Sciences	57 18.9	67 21.4	100 24.4	100 21.3	97 17.0	134 18.8	
Health Professions	24 8.0	25 8.0	30 7.3	31 6.6	44 7.7	46 6.5	
Total	301 100.0	313 100.0	410 100.0	469 100.0	570 100.0	712 100.0	

ld of Study, 1960-61 to 1973-74

966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
2	-	-	3	6	6	5	4
0.3			0.2	0.4	0.4	0.3	0.2
92	89	113	158	187	206	236	268
11.8	8.8	10.5	11.6	11.6	12.1	12.2	14.1
39	73	60	78	77	109	122	128
5.0	7.2	5.6	5.7	4.8	6.4	6.3	6.7
75	132	145	144	209	205	282	325
9.6	13.1	13.4	10.6	13.0	12.0	14.6	17.1
116	123	166	188	225	261	299	301
14.9	12.2	15.4	13.9	14.0	15.3	15.5	15.8
298	388	375	456	528	524	557	474
38.2	38.5	34.8	33.6	32.8	30.8	28.9	24.9
108	145	164	235	276	240	250	247
13.8	14.4	15.2	17.3	17.1	14.0	13.0	13.0
50	58	56	95	102	151	178	153
6.4	5.8	5.2	7.0	6.3	8.9	9.2	8.1
780	1,008	1,079	1,357	1,610	1,702	1,929	1,900
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 2

Doctoral Degrees in Educatio

Disciplines	1960-61	1961-62	196
Education			
Physical Education	-	-	-
Other Education	7	16	1
Total	7	16	1
Fine & Applied Arts	-	-	-

Disciplines	1967-68	1968-69	196
Education			
Physical Education	-	-	
Other Education	73	60	7
Total	73	60	7
Fine & Applied Arts	-	-	

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n and Fine Arts, 1960-61 to 1973-74

2-63	1963-64	1964-65	1965-66	1966-67
	-	-	-	-
2	12	21	24	39
2	12	21	24	39
	2	1	1	2

9-70	1970-71	1971-72	1972-73	1973-74
3	3	-	11	9
5	74	109	111	119
8	77	109	122	128
3	6	6	5	4

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Table 22

Doctoral Degrees in Humanities, by Discipline, 1960-61 to 1973-74

Disciplines	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Humanities							
Classics & Latin	2	-	-	3	1	-	2
English	16	9	9	8	16	13	17
French	7	1	3	4	3	11	9
Other Modern Languages .	4	4	4	6	5	5	3
History	6	6	12	8	11	10	12
Linguistics	1	1	-	2	1	1	2
Philosophy	10	13	12	8	17	25	23
Theology & Religion	4	7	8	8	14	18	19
Other humanities	7	-	4	1	2	4	5
Sub Total	57	41	52	48	70	87	92

Table 22 (con't)

Doctoral Degrees in Humanities, by Discipline, 1960-61 to 1973-74

Disciplines	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Humanities							
Classics & Latin	1	4	4	3	14	7	7
English	29	25	50	49	48	64	66
French	5	19	15	18	20	21	25
Other Modern Languages .	5	5	22	28	17	23	42
History	18	20	29	36	49	35	47
Linguistics	-	2	4	5	4	8	6
Philosophy	14	17	22	34	31	43	50
Theology & Religion	15	20	12	14	23	35	25
Other Humanities	2	1	-	-	-	-	-
Sub Total	89	113	158	187	206	236	268

Table 23

Doctoral Degrees in Social Sciences, by Discipline, 1960-61 to 1973-74

Disciplines	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Social Sciences							
Archaeology	-	-	-	-	-	-	-
Anthropology	-	-	-	-	-	-	2
Commerce & Business	-	-	-	-	1	-	3
Economics	10	5	6	7	10	14	10
Geography	2	3	3	3	5	3	6
Law	-	-	1	1	1	-	5
Library Science	-	-	-	-	-	-	-
Political Sc. & Public Administration	2	1	2	2	-	3	-
Psychology	25	21	24	36	37	46	48
Social Work	-	-	1	-	3	-	-
Sociology	-	1	-	-	-	1	1
Other Social Sciences .	2	4	2	8	-	-	-
Sub Total	41	35	39	57	57	67	75

Table 23 (con't)

Doctoral Degrees in Social Sciences, by Discipline, 1960-61 to 1973-74

Disciplines	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Social Sciences							
Archaeology	3	1	1	1	1	4	6
Anthropology	3	1	5	6	4	10	15
Commerce & Business	1	1	1	4	6	10	10
Economics	19	20	14	24	21	39	39
Geography	10	13	14	18	22	24	31
Law	1	-	3	15	10	5	4
Library Science	-	-	-	-	-	-	1
Political Sc. & Public Administration	5	3	7	9	16	20	19
Psychology	82	99	86	119	109	121	133
Social Work	3	2	11	1	1	6	1
Sociology	5	5	2	12	15	23	31
Other Social Sciences .	-	-	-	-	-	20	35
Sub Total	132	145	144	209	205	282	325

Table 24

Doctoral Degrees in Engineering & Applied S

Discipline	1960-61	1961
Engineering & Applies Sciences		
Forestry	-	-
Aerospace Engineering	-	-
Chemical Engineering	9	
Civil Engineering	3	
Electrical Engineering	1	
Mechanical Engineering	1	
Other Engineering	-	
Total	14	14

ciences, by Discipline, 1960-61 to 1973-74

-62	1962-63	1963-64	1964-65	1965-66	1966-67
	-	4	2	3	4
	-	-	5	4	13
6	6	10	11	25	25
3	3	3	4	12	20
	7	12	12	19	23
	4	6	7	9	17
	-	-	11	21	14
	20	35	52	93	116

Table 24

Doctoral Degrees in Engineering & Applied S

Discipline	1967-68	1968
Engineering & Applied Sciences		
Forestry	7	
Aerospace Engineering	2	
Chemical Engineering	21	3
Civil Engineering	16	3
Electrical Engineering	26	3
Mechanical Engineering	17	3
Other Engineering	34	1
Total	123	16

(con't)

Sciences, by Discipline, 1960-61 to 1973-74

-69	1969-70	1970-71	1971-72	1972-73	1973-74
5	7	9	3	9	6
6	6	5	4	3	2
5	37	46	49	51	51
6	29	23	42	60	52
9	46	58	70	82	87
1	35	45	49	52	43
4	28	39	44	42	60
6	188	225	261	299	301

Table 25

Doctoral Degrees in Agriculture & Biological Sciences, by Discipline, 1960-61 to 1973-74

Disciplines	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67
Agriculture & Biological Sciences							
Agriculture	6	16	17	17	11	16	14
Household Sciences	2	-	2	-	-	-	1
Veterinary Medicine	-	1	1	-	-	1	-
Biology	8	9	13	18	13	15	20
Zoology	11	11	19	18	19	20	21
Biochemistry	15	15	23	18	28	30	22
Botany	5	6	5	7	9	15	6
Other Biol. & Agr. Sc. .	10	9	20	22	18	37	24
Total	57	67	100	100	98	134	108

Table 25 (con't)

Doctoral Degrees in Agriculture & Biological Sciences, by Discipline, 1960-61 to 1973-74

Disciplines	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Agriculture & Biological Sciences							
Agriculture	15	27	60	46	52	64	49
Household Sciences	1	1	1	3	1	2	6
Veterinary Medicine	-	2	10	9	11	7	9
Biology	34	23	48	53	93	75	64
Zoology	25	26	31	41	44	47	60
Biochemistry	32	33	31	66	17	28	20
Botany	10	18	26	25	22	27	28
Other Biol. & Agr. Sc. .	28	34	28	33	-	-	11
Total	145	164	235	276	240	250	247

Table

Doctoral Degrees in Health Professions,

Discipline	1960-61	1961-62
Health Professions		
Dentistry	-	-
Medicine	23	25
Pharmacy	1	-
Other Health Professions	-	-
Total	24	25

Discipline	1967-68	1968-69
Health Professions		
Dentistry	3	-
Medicine	52	50
Pharmacy	1	3
Other Health Professions	2	3
Total	58	56

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by Discipline, 1960-61 to 1973-74

2	1962-63	1963-64	1964-65	1965-66	1966-67
	-	-	-	-	-
	30	27	41	40	46
	-	3	-	6	1
	-	1	3	-	3
	30	31	44	46	50

9	1969-70	1970-71	1971-72	1972-73	1973-74
	-	1	4	1	2
	87	95	134	163	143
	4	2	7	10	5
	4	4	6	4	3
	95	102	151	178	153

Table

Doctoral Degrees in Mathematics & Physical

Discipline	1960-61	1961-
Mathematics & Physical Sciences		
Astronomy	-	-
Chemistry	47	64
Computer Science	-	-
Geology	8	9
Mathematics	8	10
Physics (with Meteorology)	36	29
Other Mathematics & Physical Sciences	2	3
Total	101	115

Discipline	1967-68	1968-
Mathematics & Physical Sciences		
Astronomy	6	2
Chemistry	164	177
Computer Science	2	3
Geology	35	18
Mathematics	49	53
Physics (with Meteorology)	100	102
Other Mathematics & Physical Sciences	32	20
Total	388	375

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Sciences, by Discipline, 1960-61 to 1973-74

62	1962-63	1963-64	1964-65	1965-66	1966-67
	1	1	-	3	1
	76	91	96	114	127
	-	-	-	-	-
	11	14	25	31	30
	6	21	28	34	43
	57	52	66	60	76
	6	5	13	18	21
	157	184	228	260	298

69	1969-70	1970-71	1971-72	1972-73	1973-74
	5	8	5	5	16
	209	241	221	225	200
	4	8	10	21	16
	31	33	43	39	29
	61	85	97	92	88
	123	134	132	153	113
	23	19	16	22	12
	456	528	524	557	474

Table 28

Doctoral Degrees, by Field of St

Field of Study	1966	1967	1968	1969	19
Humanities	76	104	101	135	
.....	11.8	12.7	9.4	11.0	1
Social Sciences ...	89	125	198	239	
	13.9	15.2	18.5	19.4	1
Engineering & Applied Sciences	72	117	147	162	
.....	11.2	14.3	13.8	13.2	1
Physical Sciences	242	279	383	401	
.....	37.8	34.1	35.8	32.6	2
Life Sciences	162	194	240	292	
	25.3	23.7	22.5	23.8	2
Total	641	819	1,069	1,229	1,4

Source: Canadian Association of Graduate Schools

udy, 1966 to 1975

970	1971	1972	1973	1974	1975
174	205	256	258	291	312
2.1	12.2	14.3	13.1	16.2	17.1
227	310	333	414	384	513
6.8	18.5	18.6	21.0	21.4	28.1
236	244	286	309	283	224
6.5	14.5	16.0	15.7	15.2	12.3
420	526	488	540	456	405
9.3	31.3	27.2	27.4	25.4	22.2
378	395	428	448	383	371
6.3	23.5	23.9	22.8	21.3	20.3
435	1,680	1,791	1,969	1,796	1,825

Table

Doctoral Degrees in the Humaniti

Discipline	1966	1967
Fine and Applied Arts	2	1
Classics and Latin	–	5
English Language and Literature	12	19
French Language and Literature	9	29
History	11	10
Linguistics	1	–
Modern Languages and Literature	9	9
Philosophy	25	17
Theology and Religion	3	8
Other*	4	6
Total	76	104

* Includes Asian and Slavic Studies, Comparative Literature a

Source: Canadian Association of Graduate Schools.

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es, by Discipline, 1966-1975

1968	1969	1970	1971	1972	1973	1974	1975
–	1	5	4	9	3	4	7
4	4	4	5	11	14	9	7
20	36	47	51	66	57	71	81
13	20	23	18	19	27	26	31
24	16	30	39	50	43	55	63
1	–	5	2	4	6	8	11
2	17	9	25	18	22	20	21
19	23	23	31	38	48	45	46
10	8	12	13	22	24	18	20
8	10	16	17	19	14	35	25
101	135	174	205	256	258	291	312

nd Medieval Studies.

Table 3

Doctoral Degrees in the Social Sci

Discipline	1966	1967
Anthropology Archaeology	1	2
Business	–	–
Economics	3	4
Education	21	40
Geography	10	8
Law	–	1
Library Science	–	–
Physical Education	–	–
Political Science and Public Administration	8	9
Physchology	40	55
Social Welfare	–	2
Sociology	6	4
Other*	–	–
Total	89	125

* Includes Canadian Studies, Journalism and Communication, Urba

Source: Canadian Association of Graduate Schools.

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ences, by Discipline, 1966-1975

1968	1969	1970	1971	1972	1973	1974	1975
5	5	5	2	11	14	16	8
4	–	1	1	2	5	7	1
1	1	3	4	7	7	10	19
12	10	7	16	21	30	35	30
62	75	69	101	100	122	90	159
16	15	21	17	23	24	29	39
2	11	2	8	7	5	4	7
–	–	–	–	–	4	1	–
–	2	3	7	11	8	11	8
10	14	17	16	22	25	25	42
79	95	85	119	99	136	119	150
2	2	1	2	5	2	1	7
4	7	8	8	19	26	30	39
1	2	5	9	6	6	6	4
198	239	227	310	333	414	384	513

n and Regional Planning.

Table

Doctoral Degrees in Engineering and Applie

Discipline	1966	1967
Architecture	–	–
Aerospace Science	9	8
Chemical Engineering	19	28
Civil Engineering	9	24
Electrical Engineering	14	27
Mechanical Engineering	11	14
Other*	10	16
Total	72	117

* Includes Engineering Design, Environmental Studies, Industria

Source: Canadian Association of Graduate Schools.

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d Sciences, by Discipline, 1966-1975

1968	1969	1970	1971	1972	1973	1974	1975
–	–	–	–	1	–	–	1
11	5	12	13	6	14	8	10
27	31	44	49	56	59	50	44
24	34	42	37	62	55	51	41
36	38	62	58	65	80	80	55
23	33	43	33	40	45	49	35
26	21	33	54	56	56	45	38
147	162	236	244	286	309	283	224

l and Mining Engineering, and Metal and Materials Science.

Table 32

Doctoral Degrees in the Life Sciences, by Discipline, 1966-1975

Discipline	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Agriculture	2	6	2	5	3	3	3	5	2	3
Anatomy	6	3	4	8	8	15	15	14	5	10
Animal Science	5	6	4	8	8	18	15	17	12	11
Biochemistry	18	27	42	43	48	60	65	51	44	51
Biology	15	26	20	33	43	50	63	61	43	58
Biophysics	11	5	6	2	7	14	14	6	8	8
Botany	10	5	22	22	24	17	26	24	27	15
Dentistry	-	3	-	-	-	2	4	2	2	1
Entomology	7	6	5	10	10	6	6	9	8	9
Food Science	-	2	1	4	8	6	5	7	7	8
Forestry	4	4	10	6	11	6	4	10	6	6
Genetics	6	3	6	6	11	1	5	10	2	2
Marine Science	3	3	3	4	3	9	6	6	9	8
Medicine	9	13	8	16	6	4	9	22	10	-
Microbiology & Immunology	6	17	22	20	28	29	18	29	22	27
Pathology	1	7	2	4	7	4	4	8	7	7
Pharmacy/Pharmacology	12	7	15	19	19	30	40	34	26	27
Physiology	7	9	6	16	15	28	25	35	26	19
Plant Science	11	11	16	17	31	22	21	22	28	26
Public Health	-	1	3	2	3	7	3	2	1	2
Soil Science	3	-	4	7	11	13	14	13	9	5
Surgery	-	7	2	3	8	2	2	4	4	-
Veterinary Medicine	-	-	1	1	1	4	1	4	6	4
Zoology	21	18	36	28	43	39	46	39	47	45
Other	5	5	-	8	20	6	14	13	21	19
Total	162	194	240	292	378	395	428	448	382	371

Source: Association of Canadian Graduate Schools

Table 33

Doctoral Degrees in the Physical Sciences, by Discipline, 1966-1975

Discipline	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Astronomy	4	3	5	3	2	1	2	5	9	3
Chemistry	115	142	184	193	192	257	206	221	195	161
Computer Science	–	–	4	2	1	17	16	22	27	27
Geology	24	10	39	30	33	35	37	51	31	39
Mathematics	37	44	52	60	63	86	88	84	87	72
Physics (including Meteorology)	62	80	99	113	129	130	139	157	107	103
Total	242	279	383	401	420	526	488	540	456	405

Source: Canadian Association of Graduate Schools.